

1998, which package contained the Combined Declaration and Power of Attorney (copy marked as Exhibit B) and written specification for the present application;

4. That rejected claims 15-22 define embodiments that were conceived prior to September 25, 1998, and included in the written specification mailed on September 22, 1998, and filed on October 1, 1998, as evidenced by Exhibits A and B;

5. That the subject matter of claims 15-22 was diligently pursued by Applicants from a time starting before September 25, 1998, until filing of the written specification on October 1, 1998, or any earlier actual reduction to practice;

6. That further documents and supporting statements would be redundant absent identification of specific issues.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date 12/5/02

Keith M. Tackett
Keith M. Tackett

EXHIBIT A

PATTERSON & ASSOCIATES

Attorneys at Law

B. TODD PATTERSON
KEITH M. TACKETT
D. BRIT NELSON
JOSEPH JONG
GERO G. MCCLELLAN

3040 Post Oak Boulevard
Suite 1500
Houston, Texas 77056
Telephone (713) 623-4844
Facsimile (713) 623-4846

Intellectual Property law

September 22, 1998

VIA FEDERAL EXPRESS
AIRBILL TRACKING NO.: 3732372674

Beth Mulcahy
520 Sequoia Drive
Sunnyvale Ca 94086

Re: **AMAT/2966/PDD/KPU1/JS**
U.S. Patent Application Entitled
**A SILICON CARBIDE DEPOSITION FOR USE AS A BARRIER LAYER
AND AN ETCH STOP**
Our Ref. APPM/2966

Dear Beth:

Enclosed is a copy of the Amendment and Response to Restriction Requirement, Petition For One Month Extension of Time, and return postcards. These documents were mailed from our offices via first class mail on June 24 and 25, 1997.

Enclosed for Robert W. Mulcahy's signature are the following documents:

1. U.S. Patent Application;
2. Combined Declaration and Power of Attorney [Unsigned];
3. Assignment Recordation Cover Sheet;
4. Taiwan Oath [Unsigned];
5. Taiwan Assignment [Unsigned];
6. Assignment for Application for Patent [Unsigned];
7. New Application Transmittal [Unsigned];
8. Information Disclosure Statement [Unsigned];
9. PTO-1449 [With References Cited]; and
10. Disk and Postcards.

Beth Mulcahy
September 22, 1988
Page 2

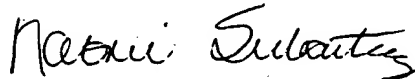
After the documents have been signed, please file it with the United States Patent and Trademark Office. Also, please provide us with a copy of the signed documents for your files.

If you have any questions, or if I can be of any further assistance, please do not hesitate to contact me.

Thank you.

Very truly yours,

PATTERSON & ASSOCIATES



Naomi Serbantez
Assistant to B. Todd Patterson

/ns
Enclosures

C:\WINDOWS\DESKTOP\DOCUMENT\APPM\1385\LTR\BETH.0001

FedEx USA Airbill

Tracking Number **3732372674****Sender's Copy**

738941 00021/00050

1 From (please print)
Date **09/22/1998** Sender's FedEx Account Number **2022-6757-2**
Sender's Name **D. BRIT NELSON** Phone **(713) 523-4844**
Dept./Floor/Suite/Room
Company **PATTERSON & STREETS**
Address **3040 POST OAK BLVD STE 1500**
City **HOUSTON** State **TX** Zip **77056**
APPN: 2966
2 Your Internal Billing Reference Information
(Optional) (First 24 characters will appear on invoice)
3 To (please print)
Recipient's Name **Beth Mulcahy** Phone **408-773-0889**
Dept./Floor/Suite/Room
Company
Address **520 Sequoia Drive**
To "HOLD" at FedEx location, print FedEx address here (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes)
City **Sunnyvale** State **CA** Zip **94086**
For HOLD at FedEx Location check here
☐ Hold Weekday (Not available with FedEx First Overnight or FedEx Standard Overnight)
☐ Hold Saturday (Not available at all locations)
For Saturday Delivery check here
☐ (Extra Charge. Not available at all locations)
(Not available with FedEx First Overnight or FedEx Standard Overnight)

Service Conditions, Declared Value, and Limit of Liability - By using this Airbill, you agree to the service conditions in our current Service Guide or U.S. Government Service Guide. Both are available on request. SEE BACK OF SENDER'S COPY OF THIS AIRBILL FOR INFORMATION AND ADDITIONAL TERMS. We will not be responsible for any claim in excess of \$100 per package whether the result of loss, damage, or delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your

actual loss in a timely manner. Your right to recover from us for any loss includes intrinsic value of the package, loss of sales, interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special, and is limited to the greater of \$100 or the declared value but cannot exceed actual documented loss. The maximum declared value for any FedEx Letter and FedEx Pak is \$500. Federal Express may, upon your request, and with some limitations, refund all transportation charges paid. See the FedEx Service Guide for further details.

Questions?
Call 1-800-G-FedEx (1-800-463-3339)

The World On Time

4a Express Package Service Packages under 150 lbs.
☒ FedEx Priority Overnight (Next business morning) ☐ FedEx Standard Overnight (Next business afternoon) ☐ FedEx 2Day* (Second business day)
☐ NEW FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)
*FedEx Letter Rate not available. Minimum charge: One pound FedEx 2Day rate.

4b Express Freight Service Packages over 150 lbs.
☐ FedEx Overnight Freight (Next business-day service for any distance) ☐ FedEx 2Day Freight (Second business-day service for any distance) ☐ FedEx Express Saver Freight (Up to 3 business-day service based upon distance)
(Call for delivery schedule. See back for detailed descriptions of freight products.)

5 Packaging ☒ FedEx Letter ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube ☐ Other Pkg.
Declared value limit \$500

6 Special Handling
Does this shipment contain dangerous goods? ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)
☐ Dry Ice (Dry Ice, S. UN 1845 III) ☐ CA Cargo Aircraft Only
(Dangerous Goods Shipper's Declaration not required)

7 Payment
Bill to: ☒ Sender (Account no. in section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
(Enter FedEx account no. or Credit Card no. below)
FedEx Account No. Exp. Date
Credit Card No.
Total Packages Total Weight Total Declared Value \$.00
Total Charges \$

8 Release Signature Sign to authorize delivery without obtaining signature.
Adam Mulcahy
Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.
272
WCSL 1296
Rev. Date 6/96
PART #147956
©1994-96 FedEx
PRINTED IN U.S.A.

EXHIBIT B

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

**A SILICON CARBIDE DEPOSITION FOR USE AS A BARRIER LAYER
AND AN ETCH STOP**

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ filed herewith;
- ☐ was filed on _____, under Serial No. _____, executed on even date herewith; or
- ☒ Express Mail No. EL171400830US (Serial No. not yet known) and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

[X] I hereby acknowledge with this duty there is a Statement in accordance with 37 CFR §1.98. Information Disclosure

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

[X] No such applications have been filed.

[] Such applications have been filed as follows:

A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			[] Yes [] No
			[] Yes [] N
			[] Yes [] No

B. All foreign application(s), if any, filed more than 12 mos. (6 mos. for design) prior to this U.S. application

Country:

Application No:

Filing date:

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

[] Such applications have been filed
[] Such application have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>		
		<u>Patented</u>	<u>Pending</u>	<u>Abandoned</u>

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Michael L. Sherrard	Registration No. 28,041
Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
John R. Schiffhauer	Registration No. 32,170
B. Todd Patterson	Registration No. 37,906
Keith M. Tackett	Registration No. 32,008
D. Brit Nelson	Registration No. 40,370

Send correspondence to:

Patent Counsel
APPLIED MATERIALS, INC.
P. O. Box 450-A
Santa Clara, CA 95052


Direct telephone calls to:

B. Todd Patterson
PATTERSON & ASSOCIATES
(713) 623-4844

DECLARATION


I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of ~~second~~ inventor: SUDHA RATHI

Inventor's signature:  Date: 9/25/98
Residence: 2748 WESTBERRY DRIVE
Post Office Address: SAN JOSE, CA 95132
U.S.A.


Country of Citizenship:

Full name of second inventor: PING XU

Inventor's signature:  Date: 9/25/98
Residence: CUPERTINO, CA 95014
Post Office Address: 10289 BRITTANY COURT
U.S.A.

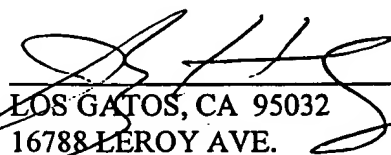
Country of Citizenship:

Full name of third inventor: CHRISTOPHER BENCHER

Inventor's signature:  Date: 9/25/98
Residence: 977-2 ASILOMAR TERRACE
Post Office Address: SUNNYVALE CA 94086
U.S.A.

Country of Citizenship:

Full name of fourth inventor: JUDY HUANG

Inventor's signature:  Date: Sep 25, 1998
Residence: LOS GATOS, CA 95032
Post Office Address: 16788 LEROY AVE.
U.S.A.

Country of Citizenship:

Full name of fifth inventor: KEGANG HUANG

Inventor's signature: _____ Date: _____
Residence: 44100 PACKARD COURT
Post Office Address: FREMONT CA 94539
U.S.A.

Country of Citizenship:

Full name of sixth inventor:

CHRIS NGAI

Inventor's signature:



Date:

9/25/98

Residence:

2606 SUMIT DRIVE

Post Office Address:

BURLINGAME, CA 94010

U.S.A.

Country of Citizenship:

(Declaration ends with this page)

A:\Declaration.POA.DOC